FORM PTO-1449 (Rev. 2-32)

U.S. Department of Commerce Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY

APPLICANT

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Atty. Docket No. Serial No.

01-104-B 10/074,754

96-88-L Old

Applicant: Cone et al.

Filing Date:

February 13, 2002

Group: 1614

## **U.S. PATENT DOCUMENTS**

Examiner Initial		D	ocu1	men	ıt N	um	ber		Date	Name	Class	Subclass	Filing Date if Appropriate
	1	5	2	8	0	1	1	2	1/18/94	Cone et al.			
,	2	5	.5	3	2	3	4	7	7/2/96	Cone et al.			
	3	4	6	8	3	1	9	5	7/28/97	Mullis et al.			
	4	4	6	8	3	2	0	2	11/27/90	Mullis			

## FOREIGN PATENT DOCUMENTS

		Docu	ment l	Numb	er			Date	Country	Class	Subclass	Transl	ation
												Yes	No
5	wo	93	2	1	3	1	6	10/28/93	PCT				
6	wo	93	2	1	3	1	5	10/28/93	PCT				

EXAMINER	DATE CONSIDERED

	U.S. Department of Commerce Patent and Trademark Office SCLOSURE STATEMENT BY APPLICANT	Atty. Docket No.	Serial No. 10/074,754
·		Applicant: Cone et al	-
		Filing Date: February 13, 2002	Group: 1614

	7	Ahmed et al., "Isolation and p purification of a melanocyte-stimulating hormone receptor from B16 murine melanoma cells. A novel approach using a cleavable biotinylated photoactivated ligand and streptavidin-coated magnetic beads," <i>The Biochemical Journal</i> <b>286</b> :377-382 (September 1, 1992)
	8	Bergendahl et al., "Short-Term Starvation Decreases POMC mRNA but Does Not Alter GnRH mRNA in the Brain of Adult Male Rats," <i>Neuroendocrinol</i> . <b>56</b> :913-920 (1992)
	9	Bertling, "Transfection of a DNA/Protein Complex into Nuclei of Mammalian Cells Using Polyoma Capsids and Electroporation," Bioscience Reports 7:107-112 (1987)
	10	Bost et al., "Molecular characterization of a corticotropin receptor," Molecular and Cellular Endocrinology 44:1-9 (1986)
-	11	Bost et al., "Similarity between the corticotropin (ACTH) receptor and a peptide encoded by an RNA that is complementary to ACTH mRNA," PNAS 82:1372-1375 (March 1985)
	12	Brady et al., "Altered Expression of Hypothalamic Neuropeptide mRNAs in Food-Restricted and Food-Deprived Rats," <i>Neuroendocrinol</i> . <b>52</b> :441-447 (1990)
	13	Buckley & Ramachandran, "Characterization of corticotropin receptors on adrenocortical cells," <i>Proc. Natl. Acad. Sci. USA</i> 78:7431-7435 (1981)
	14	Chen & Okayama, "High-Efficiency Transformation of Mammalian Cells by Plasmid DNA," Mol. Cell. Biol. 7:2745-2752 (1987)
	15	Chen et al., "A Colorimetric Assay for Measuring Activation of G <sub>s</sub> - and G <sub>q</sub> -Coupled Signaling Pathways," Analyt. Biochem. 226:349-354 (1995)
	16	Chhajlani et al., "Molecular cloning and expression of the human melanocyte stimulating hormone receptor cDNA," FEBS Letters 309(3):417-420 (September 14, 1992)
	17	Chirgwin et al., "Isolation of Biologially Active Ribonucleic Acid for Sources Enriched in Ribonuclease," <i>Biochemistry</i> 18:5294-5299 (1979)

EXAMINER	DATE CONSIDERED

H	U.S. Department of Commerce Patent and Trademark Office ISCLOSURE STATEMENT BY APPLICANT	Atty. Docket No. 01-104-B	Serial No. 10/074,754
		Applicant: Cone et a	
		Filing Date:	Group: 1614

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	18	DeWied & Jolles, "Neuropeptides derived from pro-opiocortin: Behavioral, physiological and neurochemical effects," <i>Physiol. Rev.</i> <b>62</b> :976-1059 (1982)			
	19	Dixon et al., "Structural features required for ligand binding to the β-adrenergic receptor," <i>EMBO J.</i> 6:3269-3275 (1987)			
	20	Eberle et al., "Receptor-specific antibodies by immunization with 'antisense' peptides?," Peptide Research 2(3):213-220 (1989)			
	21	Felgner et al., "Enhanced Gene Delivery and Mechanism Studies with a Novel Series of Cationic Lipid Formulations," J. Biol. Chem. 269:2550-2561 (1994)			
	22	Fink et al., "The CGTCA sequence motif is essential for biological activity of the vasoactive intestinal peptide gene cAMP-regulated enhancer," <i>Proc. Natl. Acad. Sci. USA</i> 85:6662-6666 (1988)			
	23	Gantz et al., "Molecular Cloning of a Novel Melanocortin Receptor," J. Biol. Chem. 268:8246-8250 (1993)			
	24	Gerst et al., "Dual Regulation of β-Melanotropin Receptor Function and Adenylate Cyclase by Calcium and Guanosine Nucleotides in the M2r Melanoma Cell Line," Mol. Pharmacol. 31:81-88 (1987)			
	25	Gilman, "A Protein Binding Assay for Adenosine 3':5'-Cyclic Monophosphate," Proc. Natl. Acad. Sci. USA 67:305-312 (1979)			
	26	Grahame-Smith et al., "Adenosine 3':5'-Monophosphate as the Intracellular Mediator of the Action of Adrenocorticotropic Hormone on the Adrenal Cortex," J. Biol. Chem. 242:5535-5541 (1967)			
	27	Gruber & Callahan, "ACTH-(4-10) through gamma-MSH: evidence for a new class of central autonomic nervous system-regulating peptides," Am. Physiol. Soc. 257:R681-R694 (1989)			
-	28	Hanneman et al., "Peptides encoded by the pro-opiomelanocortin gene," in Peptide Hormone as Prohormones, G. Martinez, ed. (Ellis Horwood Ltd.: Chichester, UK) pp. 53-82 (1987)			
	29	Hofmann et al., "Radioactive probes for adrenocorticotropic hormone receptors," <i>Biochemistry</i> <b>25(6)</b> :1339-1346 (March 25, 1986)			

EXAMINER	DATE CONSIDERED

U.S. Department of Commerce Patent and Trademark Office SCLOSURE STATEMENT BY APPLICANT	1 -	Serial No. 10/074,754
	Applicant: Cone et a	l.
	Filing Date: February 13, 2002	Group: 1614

		OTHER DOCUMENTS (including Author, Title, Date, Tertment Lages, Etc.)
	30	Hruby et al., "Cyclic Lactam α-Melanotropin Analogues of Ac-Nle <sup>4</sup> -cyclo[Asp <sup>5</sup> ,D-Phe <sup>7</sup> ,Lys <sup>10</sup> ] α-Melanocyte-Stimulating Hormone-(4-10)-NH <sub>2</sub> with Bulky Aromatic Amino Acids at Position 7 Show High Antagonist Potency and Selectivity at Specific Melanocortin Receptors," <i>J. Med. Chem.</i> <b>38</b> :3454-3461 (1995)
	31	Kameyama et al., "Expression of melanocyte stimulating hormone receptors correlates with mammalian pigmentation, and can be modulated by interferons," <i>J. Cellular Physiology</i> <b>137(1)</b> :35-44 (October 1988)
	32	Karnik et al., "Cysteine residues 110 and 187 are essential for the formation of correct structure in bovine rhodopsin," <i>Proc. Natl. Acad. Sci. USA</i> 85:8459-8463 (1988)
	33	Klein et al., "Pressor and cardioaccelerator effects of gamma MSH and related peptides," <i>Life Sci.</i> 36:769-775 (1985)
	34	Labbe et al., "Molecular Cloning of a Mouse Melanocortin 5 Receptor Gene Widley Expressed in Peripheral Tissues," <i>Biochem.</i> 33:4543-4549 (1994)
	35	Laursen and Belknap, "Intracerebroventricular Injections in Mice," J. Pharmacol. Methods 16:355-357 (1986)
	36	Leiba et al., "The melanocortin receptor in the rat lacrimal gland: a model system for the study of MSH (melanocyte stimulating hormone) as a potential neurotransmitter," European Journal of Pharmacology 181(1-2):71-82 (May 31, 1990)
	37	Libert et al., "Selective Amplification and Cloning of Four New Members of the G Protein-Coupled Receptor Family," Science 244:569 (1989)
	38	Lin et al., "A γ-melanocyte stimulating hormone-like peptide causes reflex natriuresis after acute unilaterasl nephrectomy," <i>Hypertension</i> 10:619-627 (1987)
	39	Ling et al., "Synthesis and biological activity of four gamma-melanotropin peptides derived from the cryptic region of the adrenocorticotropin/β-lipotropin precursor," Life Sci. 25:1773-1780 (1979)

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FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
(1407. 2 52)	Tatent and Trademark Office	01-104-B	10/074,754
	SCLOSURE STATEMENT BY APPLICANT		
		Applicant: Cone et a	1.
		Filing Date:	Group: 1614

	40	Lu et al., "Agouti protein is an antagonist of the melanocyte-stimulating-hormone receptor," <i>Nature</i> 371:799-802 (1994)
	41	Masu et al., "cDNA cloning of bovine substance-K receptor through oocyte expression system,"  Nature 329:836-838 (1987)
	42	Matsuda et al., "Structure of a cannabinoid receptor and functional expression of the cloned cDNA," Nature 346:561-564 (1990)
	43	Mertz et al., "Adrenocorticotropin receptors: Functional expression from rat adrenal mRNA in Xenopus laevis oocytes," PNAS 88:8525-8529 (1991)
	44	Moore et al., Endocrinology 34:107-114 (1991)
	45	Mountjoy et al., "Localization of the Melanocortin-4 Receptor (MC4-R) in Neuroendocrine and Autonomic Control Circuits in the Brain," <i>Mole. Endocrinol.</i> 8:1298-1308 (1994)
	46	Mountjoy et al., "The cloning of a family of genes that encode the melanocortin receptors," Science 257:1248-1251 (1992)
	47	Oelofsen & Ramachandran, "Studies of Corticotropin Receptors on Rat Adipocytes," Arch. Biochem. Biophys. 225:414-421 (1983)
	48	Oki et al., "γ-MSH Fragments from ACTH-β-LPH Precursor Have an Affinity for Opiate Receptors," Eur. J. Pharmacol. 64:161-164 (1980)
4	49	Pawalek, "Studies on the Cloudman Melanoma Cell Line as a Model for the Action of MSH," Yale J. Biol. Med. 58:571-578 (1985)
'	50	Pawelek, "Factors Regulating Growth and Pigmentation of Melanoma Cells," J. Invest. Dermatol. 66:201-209 (1976)
	51	Roselli-Rehfuss et al., "Identification of a receptor for $\gamma$ melanotropin and other proopiomelanocortin peptides in the hypothalamus and limbic system," <i>Proc. Natl. Acad. Sci. USA</i> 90:8856-8860 (1993)

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Group: 1614

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Filing Date:

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 	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
52	Saiki et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," Science 239:487-491 (1988)
53	Sambrook et al., 1990, Molecular Cloning: A Laboratory Manual (Cold Spring Harbor Press: New York)
54	Sanger et al., "DNA sequencing with chain-terminating inhibitors," <i>Proc. Natl. Acad. Sci. USA</i> 74:5463-5467 (1977)
55	Schild, "pA, A New Scale for the Measurement of Drug Antagonism," Brit J. Pharmacol. 2:189-206 (1947)
56	Schimmer et al., "Adrenocorticotropin-Resistant Mutants of the Y1 Adrenal Cell Line Fail to Express the Adrenocorticotropin Receptor," J. Cell Physiol. 163:164-171 (1995)
57	Schimuze, "Thirty-five years of progress in the study of MSH," Yale J. Biol. Med. 58:561-570 (1985)
58	Shimizu et al., "Effects of MSH on Food Intake, Body Weight and Coat Color of the Yellow Obese Mouse," Life Sci. 45:543-552 (1989)
59	Siegrist et al., "Characterization of Receptors for α-Melanocyte-stimulating Hormone on Human Melanoma Cells," Cancer Research 49:6352-6358 (November 15, 1989)
60	Siegrist et al., "Quantification of MSH receptors on mouse melanoma tissue by receptor autoradiography," J. Receptor Res. 11:323-331 (1991)
61	Slominski et al., "Melanotropic activity of gamma MSH peptides in melanoma cells," <i>Life Sci.</i> 50:1103-1108 (1992)
62	Smithies et al., "Insertion of DNA sequences into the human chromosomal β-globin locus by homologous recombination," <i>Nature</i> 317:230-234 (1985)
63	Solca et al., "The receptor for α-melanotropin of mouse and human melanoma cells," J. Biol. Chem. 264:14277-14280 (1989)

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(Rev. 2-32)
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Group: 1614

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	64	Spindel et al., "Cloning and Functional Characterization of a Complementary DNA Encoding the Murine Fibroblast Bobmesin/Gastrin-Releasing Peptide Receptor," <i>Mol. Endocrinol.</i> 4:1956-1963 (1990)
	65	Tatro & Reichlin, "Specific receptors for α-melanocyte-stimulating hormone are widely distributed in tissues of rodents," <i>Endocrinology</i> <b>121</b> :1900-1907 (1987)
	66	Tatro et al., "Melanotropin Receptors of Murine Melanoma Characterized in Cultured Cells and Demonstrated in Experimental Tumors in Situ," Cancer Res. 50:1237-1242 (1990)
	67	Thomas & Capecchi, "Site-Directed Mutagenesis by Gene Targeting in Mouse Embryo-Derived Stem Cells," Cell 51:503-512 (1987)
	68	Tissue Culture, Academic Press, Kruse & Patterson, editors (1973)
	69	Tsujii et al., "Acetylation Alters the Feeding Response to MSH and Beta-Endorphin," Brian Res. Bull. 23:165-169 (1989)
	70	Yen et al., "Obesity, diabetes, and neoplasia in yellow A <sup>vy</sup> /-mice: ectopic expression of the agouti gene," FASEB J. 8:479-488 (1994)
	71	Zhou et al., "Cloning and expression of human and rat D <sub>1</sub> dopamine receptors," Nature 347:76-80 (Sep. 1990)

EXAMINER .	DATE CONSIDERED